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The aim of m would be to convert the log test's ϕ and $a \cdot R_w$, to the log test's quote of R_o (water soaked formation resistivity), not the heart evaluation edition of R_o or the "authentic" R_o . The aim here would be to produce the log investigation report that the reservoir saturation. M is a inner log evaluation parameter. In case it fails to create R_o from log info (not center information) it's not appropriate for purpose and in the actual world is "incorrect". The lab is an insufficient event of in-situ conditions mainly since the scale of laboratory m is cm although the scale of this logged R_t , together with which it'll be utilized, is metre or maybe dm. The unspoken assumption of log analysis "equations" is that inputs have come in precisely the exact same bit of stone, which they've not if the stone is inhomogeneous and the scales of measurement of these inputs differ.

We opt to discount Nature's very own reservoir states m lab and attempt to make socket conditions at the lab. Why? This specific religion in center information is misconceived. . M have to call the log information's R_o not the laboratory information's R_o .

Think about the thorough objective of every step and concentrate on the information which will actually be utilized in the test.

The aim of n would be to convert the log test's worth of R_o/R_t to the true reservoir S_w . The log tests metre scale quote of R_t/R_o departs in the laboratory's cm scale dimension of R_t/R_o as heterogeneity increases. This storyline is populated by heart information using an R_t/R_o axis not quantified in the scale of this log data that will really be utilised in the test. No wonder we get incorrect answers with log analysis!

This n definition scheme may be utilized more efficiently if we believe the comprehensive objective and concentrate on the information which will actually be utilised in the test. The approach of the writer is to ascertain by populating the n definition storyline with data that is sensible. That can be not cm scale center information unless we're fortunate enough to be coping with a metre scale homogeneous "blocky sand" for instance.

Do not be tricked into believing you have the "right" response for n and m simply because you've done center SCAL analysis. Think.

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